

Amendments to the Claims

1. (Currently Amended) A method of assessing whether a subject is afflicted prostate cancer, the method comprising comparing:
 - a) the level of expression of a marker in a sample from a subject, wherein the marker is a ~~KIAA marker~~ selected from the group consisting of SEQ ID NO. 10 (KIAA 18) ~~KIAA 18~~ and SEQ ID NO. 11 (KIAA 96) ~~KIAA 96~~, and
 - b) the normal level of expression of the marker in a control sample,wherein a significant difference between the level of expression of the marker in the sample from the subject and the normal level is an indication that the subject is afflicted with prostate cancer.
2. (Original) The method of claim 1, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.
3. (Original) The method of claim 1, wherein the sample comprises cells obtained from the subject.
4. (Original) The method of claim 3, wherein the cells are collected from the prostate gland.
5. (Original) The method of claim 3, wherein the cells are collected from blood.
6. (Original) The method of claim 1, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a subject not afflicted with prostate cancer by a factor of at least about 2.
7. (Original) The method of claim 1, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a subject not afflicted with prostate cancer by a factor of at least about 3.
8. (Original) The method of claim 1, wherein the marker is not significantly expressed in non-prostate cancer cells.

9. (Original) The method of claim 1, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.
10. (Original) The method of claim 9, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.
11. (Original) The method of claim 10, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.
12. (Original) The method of claim 1, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.
13. (Original) The method of claim 12, wherein the transcribed polynucleotide is an mRNA.
14. (Original) The method of claim 12, wherein the transcribed polynucleotide is a cDNA.
15. (Original) The method of claim 12, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.
16. (Original) The method of claim 1, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide, wherein the polynucleotide comprises the marker, under stringent hybridization conditions.
17. (Currently Amended) The method of claim 1, further comprising comparing:
 - a) the level of expression in the sample of each of at least two ~~KIAA~~ markers independently, wherein the ~~KIAA~~ markers are selected from the group consisting of SEQ ID NO. 10 (KIAA 18) ~~KIAA 18~~ and SEQ ID NO. 11 (KIAA 96) ~~KIAA 96~~; and

b) the normal level of expression of the at least two ~~KIAA~~ markers in samples of the same type obtained from control subjects not afflicted prostate cancer, wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the subject is afflicted prostate cancer.

18. (Currently Amended) A method for monitoring the progression of prostate cancer in a subject, the method comprising:

a) detecting in a subject sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers SEQ ID NO. 10 (KIAA 18) ~~KIAA 18~~ and SEQ ID NO. 11 (KIAA 96) ~~KIAA 96~~ or a combination thereof;

b) repeating step a) at a subsequent point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of prostate cancer in the subject.

19. (Original) The method of claim 18, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

20. (Original) The method of claim 18, wherein the sample comprises cells obtained from the subject.

21. (Original) The method of claim 20, wherein the cells are collected from the prostate gland.

22. (Original) The method of claim 20, wherein the cells are collected from blood.

23. (Withdrawn) A method of assessing the efficacy of a therapy for inhibiting prostate cancer in a subject, the method comprising comparing:

a) expression of a KIAA 18 marker in the first sample obtained from the subject prior to providing at least a portion of the therapy to the subject, and

b) expression of the KIAA 18 marker in a second sample obtained from the subject following provision of the portion of the therapy, wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting prostate cancer in the subject.

24. (Withdrawn) A method of assessing the efficacy of a therapy for inhibiting prostate cancer in a subject, the method comprising comparing:

a) expression of a KIAA 96 marker in the first sample obtained from the subject prior to providing at least a portion of the therapy to the subject, and

b) expression of the KIAA 96 marker in a second sample obtained from the subject following provision of the portion of the therapy, wherein a significantly enhanced level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting prostate cancer in the subject.

25. (Withdrawn) A method of assessing the potential of a test compound to trigger prostate cancer in a cell, the method comprising:

a) maintaining separate aliquots of cells in the presence and absence of the test compound; and

b) comparing expression of a KIAA 18 marker in each of the aliquots, wherein a significantly enhanced level of expression of the KIAA 18 marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses the potential for triggering prostate cancer in a cell.

26. (Withdrawn) A method of assessing the potential of a test compound to trigger prostate cancer in a cell, the method comprising:

a) maintaining separate aliquots of cells in the presence and absence of the test compound; and

b) comparing expression of a KIAA 96 marker in each of the aliquots, wherein a significantly reduced level of expression of the KIAA 96 marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test

compound, is an indication that the test compound possesses the potential for triggering prostate cancer in a cell.

27. (Withdrawn) A method of treating a subject afflicted with prostate cancer, the method comprising providing to cells of the subject an antisense oligonucleotide complementary to a polynucleotide corresponding to a KIAA 18 marker.

28. (Withdrawn) A method of inhibiting prostate cancer in a subject at risk for developing prostate cancer, the method comprising inhibiting expression of a gene corresponding to a KIAA 18 marker.

29. (Withdrawn) A method of treating a subject afflicted with prostate cancer, the method comprising administering anti-KIAA 18 antibodies.

30. (Withdrawn) A method of treating a subject afflicted with prostate cancer, the method comprising delivering serine threonine kinase encoded by KIAA 96 to cells of the subject.

31. (Withdrawn) A method of treating a subject afflicted with prostate cancer, the method comprising expressing KIAA 96 in the cells of the subject.

32. (Withdrawn) A method for identifying a compound useful for treating prostate cancer, comprising:

a) measuring the expression level of a KIAA 18 marker in a cell in the presence of a test compound; and

b) comparing the expression measured in step a) to the expression of the KIAA 18 marker in a cell in the absence of the compound,

wherein the compound is useful for treating prostate cancer when the expression level of the KIAA 18 marker in the presence of the test compound is lower than its expression level in the absence of the test compound.

33. (Withdrawn) The method of claim 32, wherein the expression level is determined by measuring the levels of mRNA of the KIAA 18 marker.
34. (Withdrawn) The method of claim 32, wherein the expression level is determined by measuring the levels of the protein of the KIAA 18 marker.
35. (Withdrawn) The method of claim 32, wherein the cell is a prostate cancer cell.
36. (Withdrawn) A method for identifying a compound useful for treating prostate cancer, comprising:
- a) measuring the expression level of a KIAA 96 marker in a cell in the presence of a test compound; and
 - b) comparing the expression measured in step a) to the expression of the KIAA 96 marker in a cell in the absence of the compound,
- wherein the compound is useful for treating prostate cancer when the expression level of the KIAA 96 marker in the presence of the test compound is higher than its expression level in the absence of the test compound.
37. (Withdrawn) The method of claim 36, wherein the expression level is determined by measuring the levels of mRNA of the KIAA 96 marker.
38. (Withdrawn) The method of claim 36, wherein the expression level is determined by measuring the levels of the protein of the KIAA 96 marker.
39. (Withdrawn) The method of claim 36, wherein the cell is a prostate cancer cell.
40. (Withdrawn) A method for identifying a compound useful for treating prostate cancer, comprising
- a) measuring an activity of a KIAA 18 marker; and
 - b) comparing the activity measured in step a) to the level of activity of the KIAA 18 marker in the absence of the test compound,

wherein the compound is useful for treating prostate cancer when the activity of the KIAA 18 marker in the presence of the test compound is lower than its activity in the absence of the test compound.

41. (Withdrawn) The method of claim 40, wherein the cell is a prostate cancer cell.

42. (Withdrawn) A method for identifying a compound useful for treating prostate cancer, comprising

- a) measuring an activity of a marker selected from a KIAA 96 marker; and
- b) comparing the activity measured in step a) to the level of activity of the KIAA 96

marker in the absence of the test compound,

wherein the compound is useful for treating prostate cancer when the activity of the KIAA 96 marker in the presence of the test compound is higher than its activity in the absence of the test compound.

43. (Withdrawn) A method of treating prostate cancer in a patient, comprising administering to the patient a compound which decreases the expression of a KIAA 18 marker.

44. (Withdrawn) The method of claim 43, wherein the compound decreases expression of mRNA of the KIAA 18 marker.

45. (Withdrawn) The method of claim 43, wherein the compound decreases expression of the KIAA 18 marker protein

46. (Withdrawn) A method of treating prostate cancer in a patient, comprising administering to the patient a compound which increases the expression of a KIAA 96 marker.

47. (Withdrawn) The method of claim 46, wherein the compound increases expression of mRNA of the KIAA 96 marker.

48. (Withdrawn) The method of claim 46, wherein the compound increases expression of the KIAA 96 marker protein

49. (Withdrawn) A method for determining the efficacy of androgen withdrawal treatment in a subject afflicted with prostate cancer, comprising:

- a) detecting in a subject sample at a first point in time, the expression level of a marker, wherein the marker is selected from the group consisting of KIAA 18;
- b) repeating step a) at a subsequent point in time occurring after the subject begins androgen withdrawal treatment; and
- c) comparing the level of expression of markers detected in steps a) and b), wherein a decrease in the level of expression indicates that the androgen withdrawal treatment has reduced efficacy.

50. (Withdrawn) A method for determining the efficacy of androgen withdrawal treatment in a subject afflicted with prostate cancer, comprising:

- a) detecting in a subject sample at a first point in time, the expression level of a marker, wherein the marker is selected from the group consisting of KIAA 96;
- b) repeating step a) at a subsequent point in time occurring after the subject begins androgen withdrawal treatment; and
- c) comparing the level of expression of markers detected in steps a) and b), wherein an increase in the level of expression indicates that the androgen withdrawal treatment has reduced efficacy.

51. (New) The method of claim 1, wherein the marker is SEQ ID NO. 10 (KIAA 18).

52. (New) The method of claim 1, wherein the marker is SEQ ID NO. 11 (KIAA 96).

53. (New) The method of claim 18, wherein the marker is SEQ ID NO. 10 (KIAA 18).

54. (New) The method of claim 18, wherein the marker is SEQ ID NO. 11 (KIAA 96).